

GYMNASIUM FLOORING SYSTEMS



Our floors feature solid northern white maple ... the most eye-catching and durable sports floors available. Our clients are also attracted to the lasting value our floor systems offer. We are totally focused on satisfying our customers' needs. We do business simply, personally and directly, so you get exactly the floor you need.

GYMNASIUM FLOORING TOUR



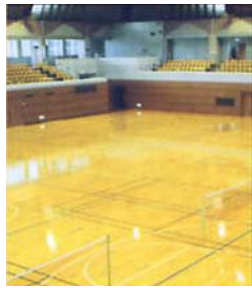
**THE SPORTING CLUB
IRVINE, CA**



**ANADARKO HIGH SCHOOL
ANADARKO, OK**



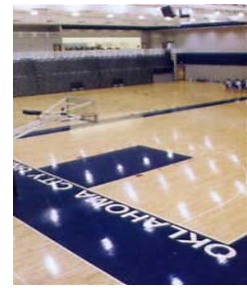
**ST. JOSEPH'S COLLEGE
NEW ZEALAND**



**KAMEDA CITY CIVIC GYM
NIGATA, JAPAN**



**CONANT HIGH SCHOOL
HOFFMAN ESTATES, IL**



**OKLAHOMA CITY UNIVERSITY
OKLAHOMA CITY, OK**

WHAT WE OFFER

SO MANY ACTIVITIES

- Badminton
- Basketball
- Netball
- Volleyball
- Indoor Hockey
- Indoor Tennis
- Indoor Soccer
- Handball
- Dancing
- Cricket
- Tennis
- Athletic Training
- Squash
- Racquetball
- Spectator Events
- Exhibitions
- Banquets
- Roller Skating
- Gymnastics
- Table Tennis
- Roller Hockey
- Korfball
- Playgroups

WE GO A LONG WAY TO SAVE YOU MONEY ON A PREMIUM FLOOR.

Our floors feature fewer floor joints, thanks to finger-jointed boards averaging 78". That means quicker, easier installation ... which adds up to sizable savings. There's a performance payoff, too ... improved uniformity of response from a more stable playing surface. It's what you've been longing for: a top-grade hardwood floor system that delivers top quality and value.



UNIVERSITY OF WISCONSIN-MILWAUKEE, MILWAUKEE, WI

GENERAL SPECIFICATIONS

QUALITY ASSURANCE

- A. All system component parts must be supplied by Gymnasium Planning & Design
- B. The flooring contractor must be approved by Gymnasium Planning & Design
- C. Flooring materials must be allowed to acclimate to building conditions on the job site in a dry, well-ventilated area, not in contact with masonry, and shall be installed at a moisture content not to exceed 8% except in areas of constant high humidity where the moisture content of the flooring shall not exceed 10%.

WORKING CONDITIONS

- A. The wood flooring shall not be installed until all masonry, plastering, tile, marble and terrazzo work is completed, and overhead mechanical trades and painters have finished in the wood floor area. The building must be reasonably dry; all openings must be closed in; permanent heating and air conditioning installed and working before, during and after installation.
- B. The concrete slab shall be dry, free of foreign materials and turned over to the wood flooring contractor broom clean. Moderate room temperature of 65° or more shall be maintained a week preceding and throughout the duration of the work. Humidity conditions within the building shall approximate humidity conditions which will prevail when the building is occupied. If prior experience indicates relative humidity during sustained heating periods will fall below 35%, building engineering shall provide for facilities to introduce moisture into the area when required. Conversely, if relative humidity increases to 50% or higher, measures should be taken to dry the building. This may require turning on the heat.

WARRANTY

- A. Gymnasium Planning & Design warrants the materials it ships to be free from defects in materials and workmanship for a period of one year and the flooring installer warrants the installation of the flooring to be free of defects in materials and workmanship for a period of one year. The exclusive remedy under this warranty shall be replacement of defective material by Gymnasium Planning & Design or correction of defective installation by the flooring installer. All implied warranties of merchantability or fitness for intended use are limited to the period of this warranty. This warranty excludes consequential damages.
- B. This warranty does not cover damage caused by fire, winds, floods, chemicals, other abuse or by failure of other contractors to adhere to specifications or neglect of reasonable precautions to provide adequate ventilation during hot and humid weather. This warranty also excludes damage due to excessive dryness or excessive moisture from humidity, spillage, migration through the slab or wall or any other source. This warranty also excludes damage to floors due to ordinary wear and tear, faulty construction of the building (other than the flooring installation), separation of the concrete slab underlying the floor, settlement of walls or use of water on the floors.
- C. During the warranty period, the floor cannot be coated without the approval of the flooring contractor.

INSPECTION

- A. Inspect concrete slab for proper tolerance and dryness, reporting any discrepancies in writing to the general contractor.
- B. No pea or river gravel or slag aggregate shall be allowed in the concrete. Concrete shall develop an average compression strength of 3500 PSI at time of installation.
- C. All work required to put the concrete slab in acceptable condition shall be the responsibility of the general contractor.

FLOOR SANDING

- A. Machine sand with coarse, medium and fine grit sandpaper.
- B. After sanding, buff entire floor using 100 grit screenback or equal grit sandpaper with a heavy-duty buffing machine.
- C. Vacuum or tack floor before first coat of seal.
- D. Floor shall present a smooth surface without drum stop marks, gouges, streaks or shiners.

FINISHING

- A. Inspect entire area of floor to ensure that the surface is acceptable for finishing, completely free from sanding dust and perfectly clean.
- B. Apply seal and finish per manufacturer's instructions.
- C. Buff and vacuum or tack between each coat after it dries.
- D. Apply game lines accurately after the seal coat(s), after buffing and vacuuming. Lay out in accordance with drawings. For game lines, use current rules of association having jurisdiction. Lines shall be straight with sharp edges in colors selected by the architect. Game line paint shall be compatible with finish.

BASE INSTALLATION

All floating systems with rubber base:

Affix rubber vent cove base to wall with recommended adhesive or screws. Miter all corners carefully. Use premolded outside corners. Install aluminum thresholds as required, anchoring firmly in concrete floor beyond limits of wood flooring.

All floating systems with maple base:

Install maple base, nailing maple directly to floor using finishing nails spaced 12" o.c. Miter all joints at 45° angles. Fill nail holes with wood filler prior to sanding and finishing. Install aluminum thresholds as required, anchoring firmly in concrete floor beyond limits of wood flooring.

CLEAN UP

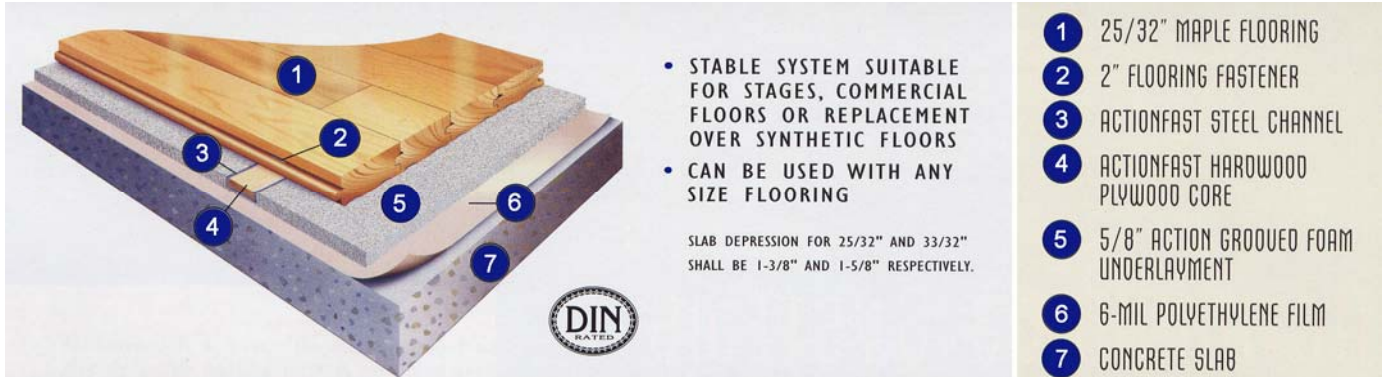
Clean up all unused materials and debris and remove from premises.

MAINTENANCE

Upon completion of floor installation, the owners, attendants or individuals in charge and responsible for the upkeep of the building are to see that the care and maintenance instructions of the MFMA are followed. Failure to do so may void warranty.

MECHANICALLY FASTENED ANCHORED FLOORING SYSTEM

This low profile system combines the benefits of both the anchored channel and nailed down floor systems. The encased ActionFast channel, with its great holding power of hardwood plywood nailers and wrapped by 20-gauge steel, clinches and anchors the flooring nails that are driven in through the tongue of the maple strip flooring. This low profile system is dimensionally stable, eliminates dead spots, and has very good acoustical properties. This floor is a good retrofit system suitable for gymnasiums, multipurpose, and commercial use.



ARCHITECTURAL SPECIFICATION

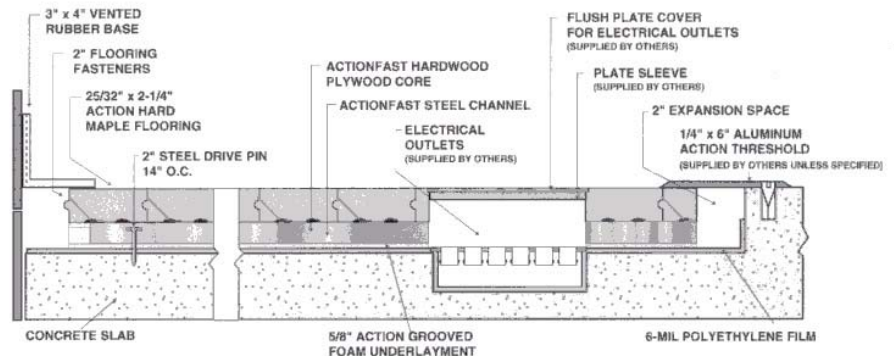
CROSS SECTION DETAILS

DESCRIPTION:

- A. The information herein details a low-profile nailed system, comprised of steel wrapped hardwood plywood nailer and resilient underlayment of closed-cell flexible foam, and MFMA maple strip flooring affixed to the top.
- B. The general contractor shall provide a level, steel troweled slab to a tolerance of + or - 1/8" in a 10'0" radius and subject to the approval of the wood floor contractor. Moisture barriers must be adequate for conditions. The concrete slab is to be depressed 5/8" plus the thickness of the flooring specified.

MATERIALS

- A. Flooring
 1. Flooring shall be MFMA hard maple strip flooring 25/32" x 2-1/4" as manufactured by Action Floor Systems, LLC. Option sizes are: 25/32" x 1-1/2", 33/32" x 1-1/2" and 33/32" x 2-1/4".
 2. Grades available are MFMA 1st, 2nd&Btr., 3rd&Btr., and 3rd grade.
 3. Action Long-Length strip.
 4. Wood flooring may be treated by Gymnasium Planning & Design when specified.



B. Subfloor

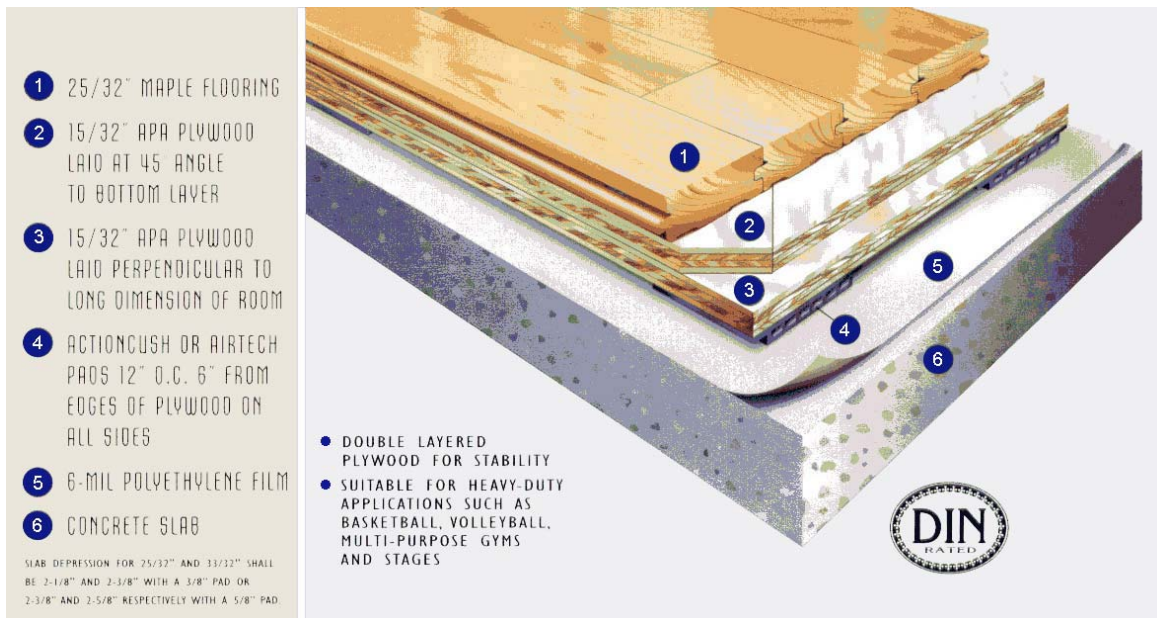
1. Vapor barrier shall be 6-mil polyethylene
2. Resilient underlayment shall be 5/8" thick rolls of multi-cellular, closed-cell flexible foam with density of 1.7 – 2.3 PCF and factory machined grooves 12" o.c. as supplied by Gymnasium Planning & Design.
3. Nailers shall be 3/8" 4-ply hardwood plywood and wrapped with 20-gauge roll-formed steel as supplied by Gymnasium Planning & Design.
4. Channel anchors shall be 5/16" minimum diameter flat head, minimum 2" long, or as approved by Gymnasium Planning & Design.
5. Flooring fasteners shall be 2" barbed cleats or 15-gauge coated staples.
6. Perimeter wall base shall be 3" x 4" rubber vented cove base with matching pre-molded outside corners (specify Black or Brown), as supplied by Gymnasium Planning & Design.



MILLWOOD HIGH SCHOOL, MILLWOOD, OK

FLOATING PANEL/FLOATING SLEEPER/SLEEPER-SUBFLOOR SYSTEMS

This versatile system consist of two layers of plywood with resilient pads affixed to the bottom and finish flooring attached to the top provides dimensional stability and excellent shock absorbency while virtually eliminating dead spots. This flooring system is suitable for a multitude of situations from heavy duty applications such as gymnasiums and multi-purpose rooms to classrooms, dance floors, racquetball courts and commercial applications.



ARCHITECTURAL SPECIFICATION

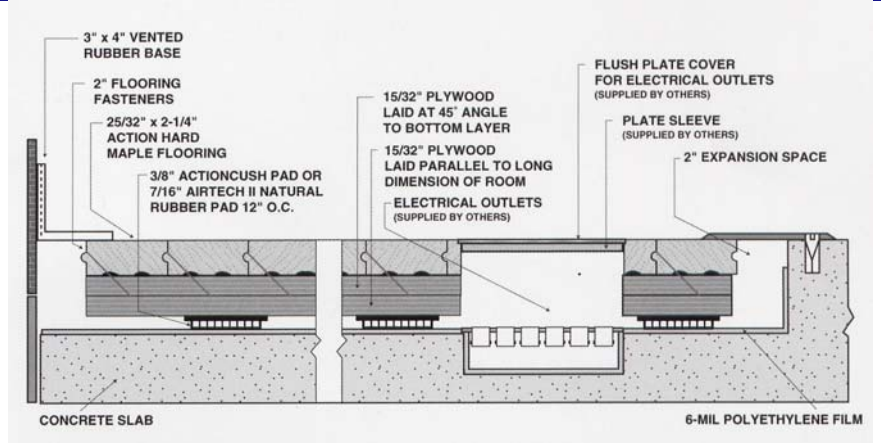
CROSS SECTION DETAILS

DESCRIPTION:

- A. The information herein details a low-profile cushioned system, comprised of two layers of plywood crossed and tacked with cushioning pads affixed to the bottom and maple strip flooring nailed to the top.
- B. The general contractor shall provide a level, steel troweled slab to a tolerance of + or - 1/8" in a 10'0" radius and subject to the approval of the wood floor contractor. Moisture barriers must be adequate for conditions. The concrete slab is to be depressed 1-3/8" plus the thickness of the flooring specified.

MATERIALS

- C. Flooring
 1. Flooring shall be hard maple standard strip flooring 25/32" x 2-1/4" (or 1-1/2")
 2. Grades available are MFMA 1st, 2nd & Btr., 3rd & Btr., and 3rd grade.
 3. Action Long-Length strip.
 4. Wood flooring may be treated by Gymnasium Planning & Design when specified.
- D. Subfloor
 1. Vapor barrier shall be 6-mil polyethylene
 2. Gymnasium Planning & Design PVC resilient pads shall be approximately 3/8" thick by 2-1/4" wide by 3" long with six fully enclosed air channels. Option: Pads may be the AIRTHRUST 3/8", 5/8", or 3/4" pneumatic conical pads as supplied by Gymnasium Planning & Design.
 3. Panels shall be 15/32" x 4' x 8' CDX plywood sheathing.
 4. Tack nails shall be 1" cleats or 1" staples.
 5. Flooring nails shall be 2" cleats or 2" staples..
 6. Wall base shall be 4" x 3" vented cove base with pre-molded outside corners (specify Black or Brown), as supplied by Gymnasium Planning & Design.



THE SPORTING CLUB, IRVINE, CA